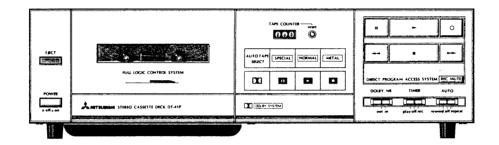


# SERVICE MANUAL

# STEREO CASSETTE DECK

# MODEL DT-41P



15652

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## **SPECIFICATIONS**

Tape 4 track, 2 channel Stereo Cassette Deck
Motor type
Capstan motor
Reel motor
Mechanism drive motor
Head material
REC/PB head
Erase head
<b>Tape speed</b>
Tape speed accuracy
Wow and flutter
Fast forward/rewind times
SN ratio (400Hz, 3% THD, Weighted, Metal tape)
Dolby NR out
Dolby NR in
Frequency response (Record level 160 pwb/mm -30dB)
Normal tape
Special tape
Metal tape
Erasure ratio (1kHz)
Input sensitivity/impedance
Line input
Bias frequency
Output level
Line output
Power consumption16W
<b>Dimensions (W x H x D)</b>
$(14 \times 4-1/16 \times 9-1/16")$
Weight

Noise Reduction System manufuctured under license from Dolby Laboratories Licensing Corporation.

Specifications of this unit are subject to change without notice for improvement.

<sup>&#</sup>x27;Dolby' and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

# DISMANTLING INSTRUCTIONS

#### 1. REMOVAL CASE

1) Remove six screws (SCREW-METAL 3 x 8) fixing the case and slide the case backward for removal. (See Fig. 1)

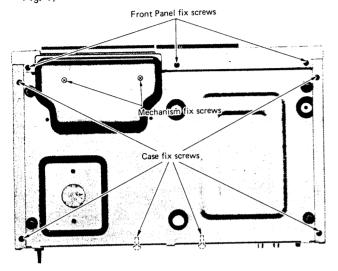


Fig. 1

### 2. FRONT PANEL REMOVAL

- 1) Remove the case according to the procedure of 1.
- 2) Remove the cassette case.
- 3) Remove front panel fixing screws (two 2-3 x 8 on the top, one 2-3 x 6 on the top and three 2-3 x 6 on the bottom). Front panel can be removed together with the SWITCH PC board. (See Figs. 1 and 2)
- 4) Remove one screw 1-2.6 x 6 fixing the SWITCH PC board. PC board can now be disassembled from the panel.

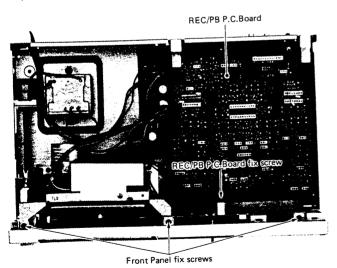


Fig. 2

#### 3. MECHANISM REMOVAL

- 1) Remove the case and front panel according to the procedure of 1 and 2.
- 2) Take off the counter belt from the counter side.
- 3) Remove five screws  $(2-3\times6)$  fixing the mechanism assembly. (See Figs. 3 and 4) (Fig. 1)
- 4) Remove one screw 2-3 x 8 fixing the RECORD PC board. Raise the PC board and disconnect jacks J110, J140, and 510 and jacks J920 and 921 of MECHANISM CONTROL PC board. The mechanism assembly can be removed.

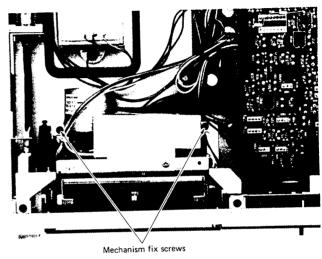


Fig. 3

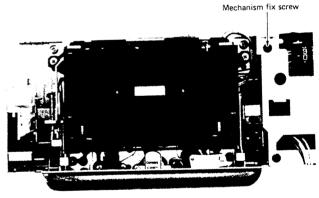
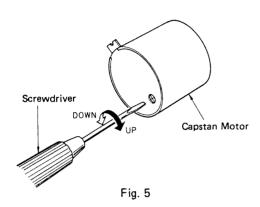


Fig. 4

#### ADJUSTMENT OF MECHANICAL SECTION

#### 1. ADJUSTING THE TAPE SPEED

- 1) Setting Connect a frequency counter to the output terminal.
- 2) Test tape MTT-111 (3 kHz)
- Adjustment procedure Play back the test tape, and insert a standard screwdriver into the motor adjusting hole and adjust till the frequency counter indicates 3000 Hz.



#### 2. ADJUSTING THE HEAD ANGLE

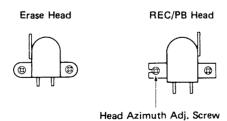
LEVEL ADJUSTMENT preset control VR102 (L), VR202 (R) to the max. level.

2) Test tape . . . . . MTT-215C (10k/315Hz, -10 dB, NORMAL)

3) Location of adjustment . . . . . Head angle adjusting screw

4) Adjustment procedure . . . . . Play back the test tape and ad-

1) Setting . . . . . . . Set the PLAY-BACK OUTPUT



both channels.

just for maximum output on

Fig. 6

#### ADJUSTMENT OF ELECTRICAL SECTION

#### **MEASURING INSTRUMENTS AND TEST TAPES**

- 1. Low-frequency oscillator . . . . . . . 20 Hz 20 kHz
- 2. Variable resistance

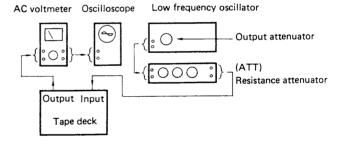
attenuator . . . . . . . 0-90 dB, 0.1 or 0.5 dB step

3. AC voltmeter . . . . . Measuring range of 20 Hz –

200 kHz or more, input impedance more than 100 k $\Omega$ ,

and -60 dB or more

- 4. Frequency counter
- 5. Oscilloscope
- 6. Test tape
  - MTT-111 (3 kHz)
  - MTT-215C (10K/315 Hz, -10dB, NORMAL)
  - MTT-150 (400Hz dolby level)
  - AC-512 (blank)
- 7. How to connect the instrument
  - 1) Connect a load resistance 22  $k\Omega$ , then the AC voltmeter and oscilloscope to the output terminal of deck.
  - 2) To adjust the recording system, connect the low-frequency oscillator and resistance attenuator to the input terminal of deck.



### ADJUSTMENT OF PLAY-BACK SYSTEM

#### 1. ADJUSTING THE PLAY-BACK OUTPUT LEVEL

1) Test tape . . . . . . MTT-150 (Dolby level)

2) Location fo ad-

justment . . . . . . Preset control VR102 (L), VR202 (R)

3) Location of

detection  $\dots$  (+) side of electrolytic capacitor

C129 (L), C229 (R)

4) Adjustment

procedure . . . . . . Playback the test tape and ad-

just untill the output level on the (+) side of C129 and C229 becomes 580 mV  $\pm\,0.25$  dB.

#### 2. ADJUSTING THE MPX FILTER

1) Setting . . . . . . . With the deck kept in the specified recording condition, stop the bias oscillator.

2) Location of adjustment . . . . . FL101 (L), FL201 (R) 3) Adjustment procedure . . . . . . Apply a 19kHz signal to the input terminal and adjust FL101 and FL201 for minimum output level.

#### ADJUSTMENT OF RECORDING SYSTEM

#### 1. ADJUSTING THE BIAS FREQUENCY

1) Setting . . . . . . . Connect the frequency counter to pin 1 (L) and pin 3 (R), J120.

2) Location of adjustment ..... T501

3) Adjustment

procedure . . . . . . Adjust untill the frequency count-

indicates 85 kHz.

#### 2. ADJUSTING THE RECORDING CURRENT

1) Setting . . . . . . . . With the deck in a recording state, apply a 400 Hz, -10dB signal. Adjust the RECORDING LEVEL CONTROL control untill a -7 dB output is obtained at the output terminal. Then lower the input level by 30 dB.

2) Test tape . . . . . . . AC-512

3) Location of

adjustment ..... Preset control VR301 (L), VR401

(R)

4) Adjustment

procedure . . . . . . Adjust so that the output level

for recording and play-back of 400 Hz signal is equal to the level

for monitoring.

#### 3. ADJUSTING THE BIAS CURRENT

1) Setting . . . . . . . . Same as for the adjustment of recording current described in 2.

2) Test tape . . . . . . . AC512

3) Location of

adjustment . . . . . Preset control VR-501 (L).

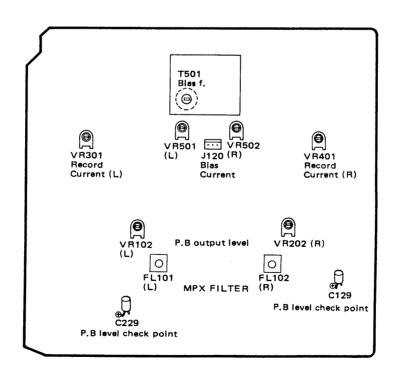
VR502 (R)

4) Adjustment

procedure . . . . . . Adjust so that the level difference

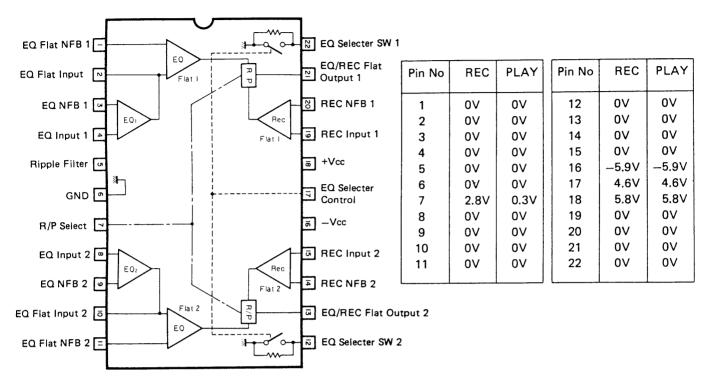
of 8 kHz to 400 Hz is +0.5dB. -OdB when recording and play-

back 400 Hz and 8 kHz signals.

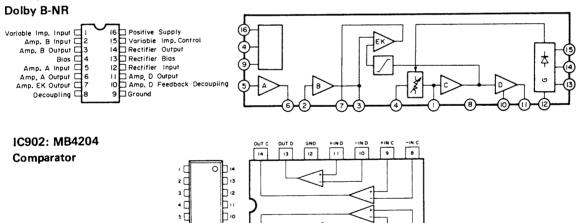


# INTERNAL DIAGRAMS AND PINOUT OF INTEGRATED CIRCUITS

#### IC101:M51125P



### IC102, 202: TA7629P



#### COMPARATOR

Pin No.	ı	2	3	4	5	6	7	8	9	10	11	12	13	14
PLAY	4. IV	4. IV	Voc	<b>*</b> 3.0∨	4.9V	3.0V	4.9V	<b>*</b> 3.0∨	4.9V	0.6V	0.6V	GND	5.3V	4.2V
REC	4.1V	4.1V	Vcc	<b>*</b> 3.0∨	4.9V	<b>*</b> 3.0∨	4.9V	<b>*</b> 3.0∨	4.9V	0.6V	0.6V	_	5.3V	4.2V
FF	4.1V	4.1V	Vcc	<b>*</b> 3.0∨	4.9V	* 3.0V	4.9V	<b>*</b> 3.0∨	4.9V	0.5V	0.5V	_	4.5V	4.2V
REW	4.1V	4.1V	9.4V Vcc	* 3.0V	4.9V	<b>*</b> 3.0∨	4.9V	<b>≭</b> 3.0∨	4.9∨	0.5V	0.5V	_	4.3V	4.2V
STOP	4.1V	4.1V	10.4V Vcc	3.0V	4.9V	3.0V	4.9V	3.0V	4.9V	0 V	0 V	-	5.5V	4.2V
PAUSE	4.1V	4.1V	10.2V Vcc	<b>*</b> 3.0∨	4.9V	<b>*</b> 3.0∨	4.9V	<b>*</b> 3.0∨	4.9V	0 V	0 V	-	5.5V	4.2V
FWD	3.4V	4.1V	9.3V Vcc	<b>*</b> 3.0∨	4.9V	<b>*</b> 3.0∨	4.0V	¥ 3.0∨	4.9V	0.5V	0.5V		4.5V	4.2V
REV	4.IV	4.IV	9.3V Vcc	<b>≭</b> 3.0∨	4.9∨	<b>*</b> 3.0∨	4.9V	<b>≭</b> 3.0∨	4.9V	0.5V	0.5V	_	4.4V	4.2V

● Vcc ··· 8 . 6V

# IC901:MB884-584K MICROPROCESSOR (MECHANISM CONTROL)

# TERMINAL DESCRIPTION OF MECHANISM CONTROL IC

Pin No.	Pin nomenclature	Function							
1 Extal			IN	Clock (3MHz)     1/2 branched inside to be used as a basic clock (instruction)					
2	Xtal	-	OUT	execution time 4MS/STEP)					
3	RESET	RESET	IN	<ul> <li>Internal initialized with "L" to allow program execution start from an address "0".</li> </ul>					
4	IRO	TAPE END S. IN.	IN	<ul> <li>Interruption handling with "L" to count the number of pulses.</li> <li>With the interruption handling unexecuted for the second, the end stop function is actuated (in the TAPE RUN mode).</li> </ul>					
5	SO	BLANK	OUT	Blank					
6	SI	BLANK	IN	Blank					
7	SC/TO	BLANK	IN, OUT	Blank					
8	тс	BLANK	.IN	Blank					
9	P <sub>0</sub>	DA <sub>0</sub>	OUT						
10	P <sub>1</sub>	DAı	OUT	D/A control output to produce comparison voltage for key interruption					
11	P <sub>2</sub>	DA <sub>2</sub>	OUT	<ul> <li>Output in BCD code. One cycle completed in "F" → "D" → "B" → "9" → "7" → "5" → "3" → "1"</li> </ul>					
12	P <sub>3</sub>	DA <sub>3</sub>	OUT						
13	O <sub>0</sub>	MPSS Z <sub>0</sub>	OUT						
14	01	MPSS Z <sub>1</sub>	OUT	MPSS set number of skip selection programs/operation display.					
15	O <sub>2</sub>	MPSS Z <sub>2</sub>	OUT	Output in BCD code: codes "0" - "8" and "F" used.					
16	О3	MPSS Z <sub>3</sub>	OUT						
17	O4	HEAO CONT.	оит	<ul> <li>Output signal for REC OUT (Rs Zrpin) and R/P change- over .</li> <li>"L" in REC.</li> </ul>					
18	O <sub>5</sub>	BIAS OSC CONT.	OUT	<ul> <li>Output signal for ON/OFF of bias oscillation circuit.</li> <li>"L" in REC PLAN, REC/PLAY/ASPS.</li> </ul>					
19	O <sub>6</sub>	REC MUTE.	OUT	Output signal for REC MUTE     "H" in MUTE;					
20	01	PLAY BACK MUTE	OUT	Output signal for PLAY BACK MUTE (LINE MUTE)     "H" in MUTE.					
21	Vss	GND	_	Ground of power supply.					

22	R <sub>0</sub>	CAM M. OUT I	OUT	<ul> <li>Cam motor control output signal.</li> <li>R<sub>0</sub> = "L" and R<sub>1</sub> = "H" output at early stage of power supply</li> </ul>
23	R <sub>1</sub>	CAM M. OUT I	OUT	application for positioning of stop.
24	R <sub>2</sub>	REEL M. OUT <sub>0</sub>	OUT	Reel motor control output signal.
25	R <sub>3</sub>	REEL M. OUT 2	OUT	<ul><li>R<sub>2</sub> = "L", R<sub>3</sub> = "H" output during play.</li></ul>
26	R <sub>4</sub>	PLAY OUT	OUT	Output signal (for display) turning into "L" at PLAY.
27	R <sub>5</sub>	REC OUT	OUT	<ul> <li>Output signal (for display) turning into "L" at REC.</li> <li>Used, together with HEAD CONT (O4 17p/n), for R/P change-over.</li> </ul>
28	R <sub>6</sub>	PAUSE OUT	оит	Output signal (for display) turning into "L" at PAUSE.
29	R <sub>7</sub>	ASPS OUT	OUT	Output signal (for display) turning into "L" at ASPS.
30	R <sub>8</sub>	SHORT R.	ОИТ	<ul> <li>Control output signal turning into "L" during SHORT REPEAT function.</li> <li>AMP gain change-over signal for MPSS (MSS).</li> </ul>
31	R <sub>9</sub>	VOLT OUT.	OUT	<ul> <li>Reel motor voltage control output signal.</li> <li>"L" at FF/REC, FWD/REV for change-over to high voltage.</li> </ul>
32	R <sub>10</sub>	CAPS M. OUT	оит	<ul> <li>Capstan motor control output signal.</li> <li>"L" at PLAY or PAUSE for motor running.</li> </ul>
33	R <sub>11</sub>	MPSS OUT	ОПТ	<ul> <li>Output signal turning into "L" at program selection of MPSS (MSS).</li> </ul>
34	R <sub>12</sub>	MPSS IN	IN	<ul> <li>"H" (between programs) and "L" (within program) are input for control of heading.</li> </ul>
35	R <sub>13</sub>	MEMORY IN	IN	Memory function goes ON with ON withf only for MEMORY SHORT REPEAT.
36	R <sub>14</sub>	ANTI REC IN	IN	<ul> <li>Recording preventive input signal.</li> <li>"L" input to prevent recording.</li> </ul>
37	R <sub>15</sub>	PLAY POS.	IN	<ul> <li>Head base PLAY position input signal.</li> <li>"L" input only at PLAY position.</li> </ul>
38	K <sub>0</sub>	K <sub>0</sub> IN	IN	<ul> <li>Signal input terminal of switches, STOP, PLAY, FWD, and TIMER REC/PLAY.</li> <li>ON/OFF judged with code value of DA<sub>0</sub> — DA<sub>3</sub></li> </ul>
39	K <sub>1</sub>	K <sub>1</sub> IN	IN	<ul> <li>Signal input terminal of switches, REC, FF, REW, MPSS RESET, MPSS SET, and SPEED TEST.</li> <li>ON/OFF judgement with code value of DA<sub>0</sub> — DA<sub>3</sub></li> </ul>
40	K <sub>2</sub>	K <sub>2</sub> IN	IN	<ul> <li>Signal input terminal of switches, PAUSE, REW, ASPS, and AUTO REPEAT/REW/PLAY.</li> <li>ON/OFF judgement with code value DA<sub>0</sub> — DA<sub>3</sub></li> </ul>
41	К3	O. POS.	IN	<ul> <li>Position input signal, which is "L" at each position (STOP, FF/REW, PASE, PLAY) of head base.</li> </ul>
	Vcc	= 5V		• ± 5V power supply

Next Mode	1 Input STOP	1 Input FF	1 Input REW	1 Input PLAY	1 Input PAUSE	2 Input REC/ PAUSE	2 Input REC/ PLAY	3 Input REC/ PLAY/ ASPS	1 Input REC/	1 Input ASRS	1 Input (MPSS) (MSS) REV	1 Input (MPSS) (MSS) FWD	Note <sup>2)</sup> (MPSS) (MSS) PLAY
STOP	<b>→</b>	FF (1)	REW	PLAY	PAUSE	REC/ PAUSE/ (5)	REC/ PLAY/ (6)	REC/ PLAY ASPS/ (7)	<b>→</b>	<b>→</b>	REV (8)	FWD (9)	
FF	STOP (10)	<b>→</b>	REW (11)	* PLAY (12)	<b>→</b>	<b>→</b>	* REC/ PLAY (13)	* REC/ PLAY/ ASPS/ (14)	<b>→</b>	<b>→</b>	REV (15)	FWD (16)	
REW	STOP (17)	FF (18)	<b>→</b>	* PLAY (19)	<b>→</b>	<b>→</b>	* REC/ PLAY/ (20)	* REC/ PLAY/ ASPS/ (21)	<b>→</b>	<b>→</b>	REV (22)	FWD (23)	
PLAY (MPSS) (MSS)	▲ STOP (24)	FF (25)	REW (26)	<b>→</b>	PAUSE	REC/ PAUSE/ (28)	REC/ PLAY (29)	REC/ PLAY/ ASPS (30)	<b>→</b>	<b>→</b>	REV (31)	FWD (32)	
PAUSE	STOP (33)	FF (34)	REW (35)	PLAY (36)	<b>→</b>	REC/ PAUSE/ (37)	REC/ PLAY/ (38)	REC/ PLAY/ ASPS/ (39)	<b>→</b>	<b>→</b>	Note 1) REV (40)	Note 1) FWD (41)	
REC/ PAUSE	STOP (42)	FF (43)	REW (44)	REC/ PLAY (45)	<b>→</b>	<b>→</b>	REC/ PLAY/ (45)	REC/ PLAY/ ASPS/ (46)	<b>→</b>	<b>→</b>	* REV (47)	* FWD (48)	
REC/ PLAY	▲ STOP (49)	FF (50)	REW (51)	<b>→</b>	REC/ PAUSE/	REC/ PAUSE (52)	<b>→</b>	REC/ PLAY/ ASPS/ (53)	<b>→</b>	REC/ PLAY/ ASPS/ (93)	* REC (54)	* FWD (55)	
REC/ PLAY/ ASPS	STOP (56)	FF (57)	REW (58)	REC/ PLAY/ (59)	REC/ PAUSE/ (60)	REC/ PAUSE (60)	REC/ PLAY/ (59)	<b>→</b>	<b>→</b>	<b>→</b>	* REV (61)	* FWD (62)	
(MPSS) (MSS) REV	STOP (63)	FF (64)	REW (65)	* PLAY (66)	* PAUSE (67)	<b>→</b>	* REC/ PLAY/ (68)	* REC/ PLAY ASPS/ (69)	<b>→</b>	<b>→</b>	<b>→</b>	(70)	* (MPSS) (MSS) PLAY (66)
(MPSS) (MSS)	STOP (72)	FF (73)	REW (74)	* PLAY (76)	* PAUSE (76)	->	* REC/ PLAY/ (77)	* REC/ PLAY/ ASPS/ (78)	<b>→</b>	<b>→</b>	REC (78)	<b>→</b>	* (MPSS) (MSS) PLAY (75)

A — Rewinding\* — Function via stop

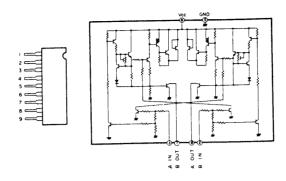
ullet o — Indicates continuation of current mode

Note 1) When PAUSE → REV · FWD is effectuated, PAUSE state is obtained in the order of a selected program and a next program.

Note 2) This state is a short repeat (repetition of one program) function set only within the mechanical control.

IC903, 904: BA6208

Reel Motor
Cam Motor Drive



## ● DRIVE VOLTAGE (REEL MOTOR)

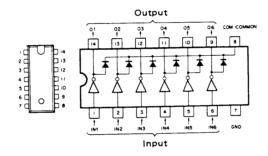
Pin No.	ı	2	3	4	5	6	7	8	9
STOP	10.5V	2.8V	2.8V	0 V	0 V	5.7٧	0 V	0 V	0 V
PLAY	8.8	3.1V	0 V	0 V	0.7V	5.6V	4.6V	0.9∨	0 V
FF	9.3V	3. IV	0 V	0 V	0.5V	8.4V	7.5V	0.6V	0 V
REW	9.4٧	0 V	3.0V	0 V	0.5V	8.4V	0.6V	7.5V	0 V

### • TRUTH TABLE

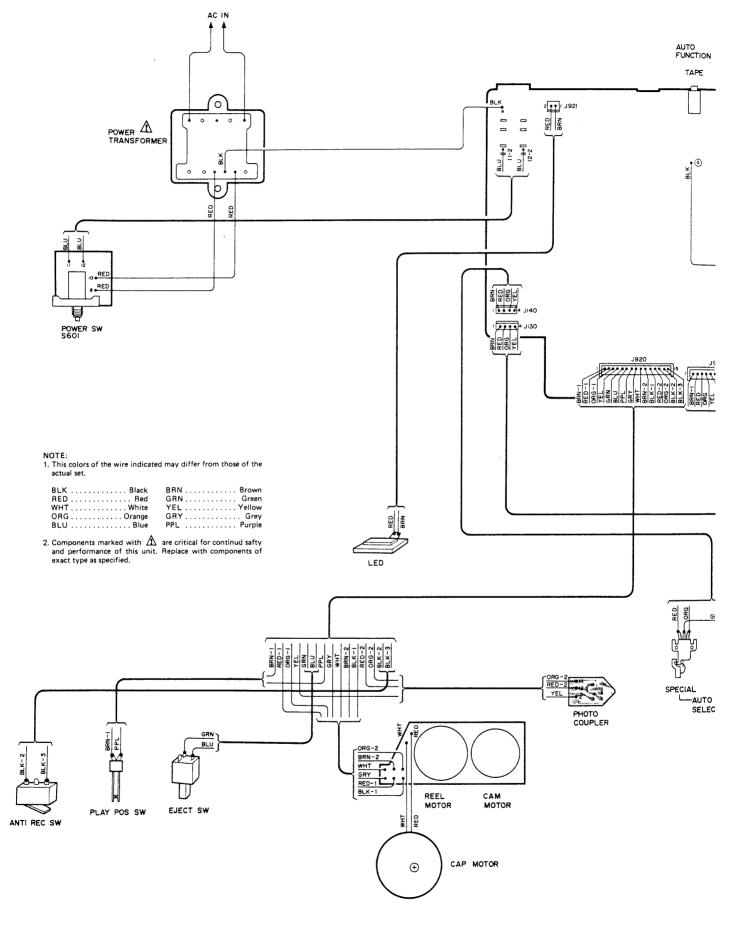
AIN	BIN	воит	A OUT	Motor
1	-	L	L	Short
ı	0	н	L	+
0	2	L	Н	
0	0	_	_	Open

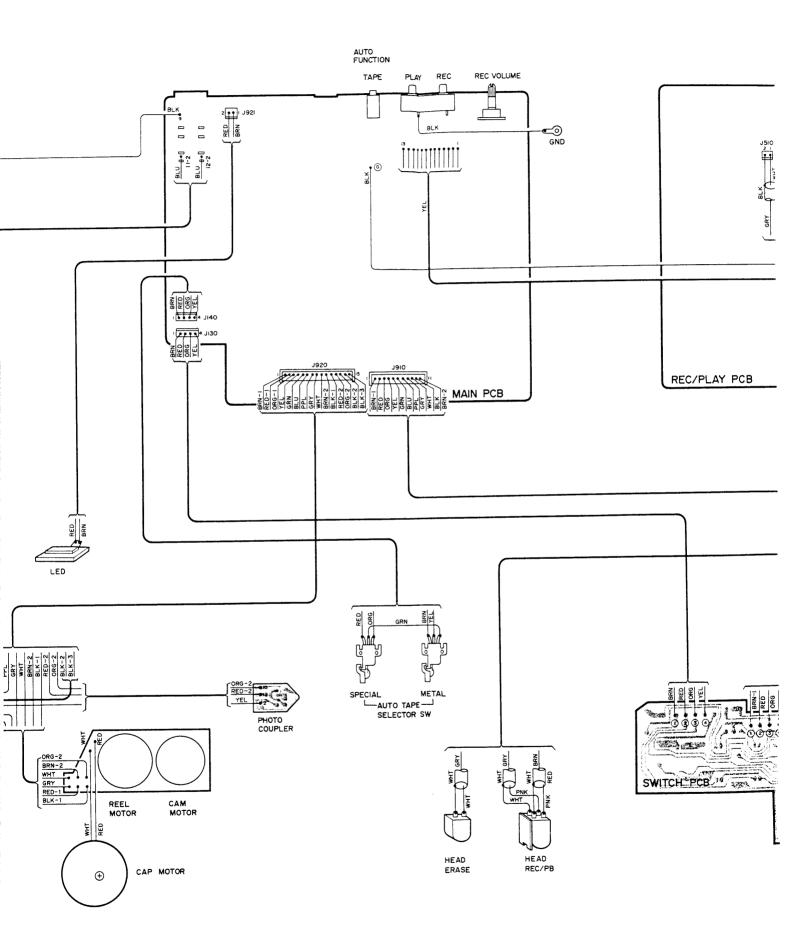
IC905: M54527P

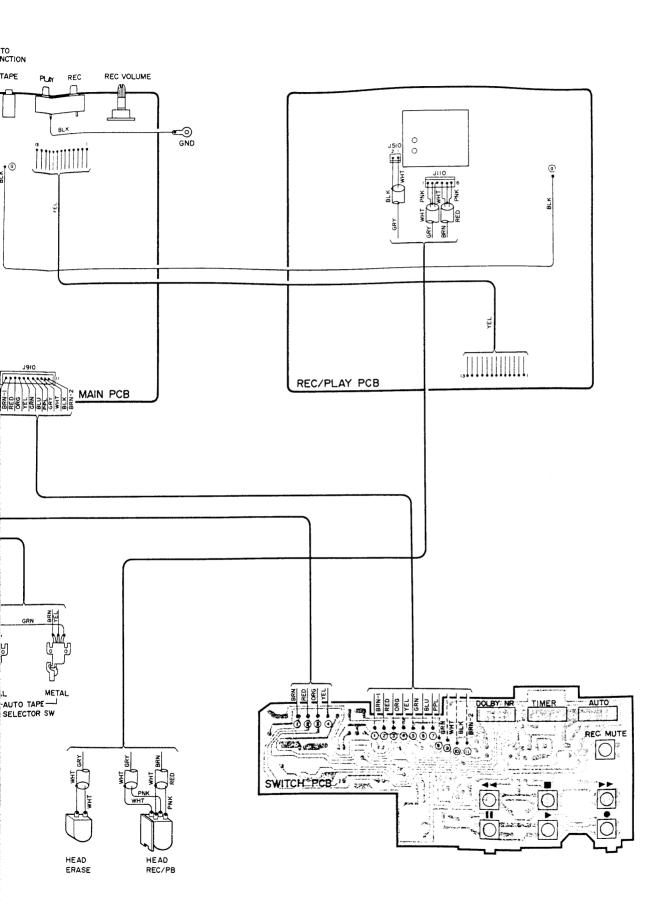
Interface



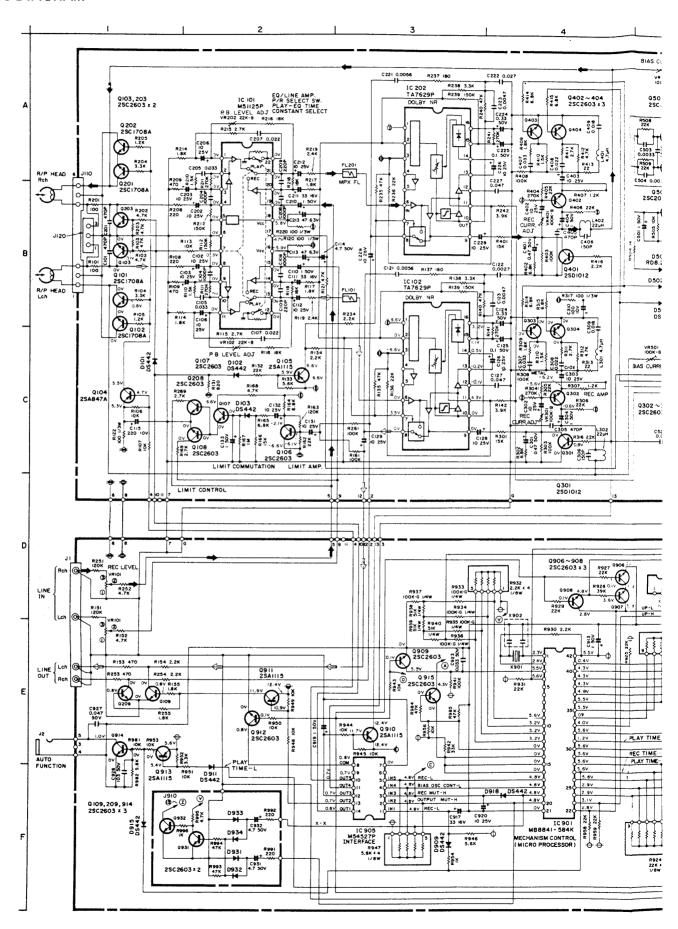
#### **WIRING DIAGRAM**

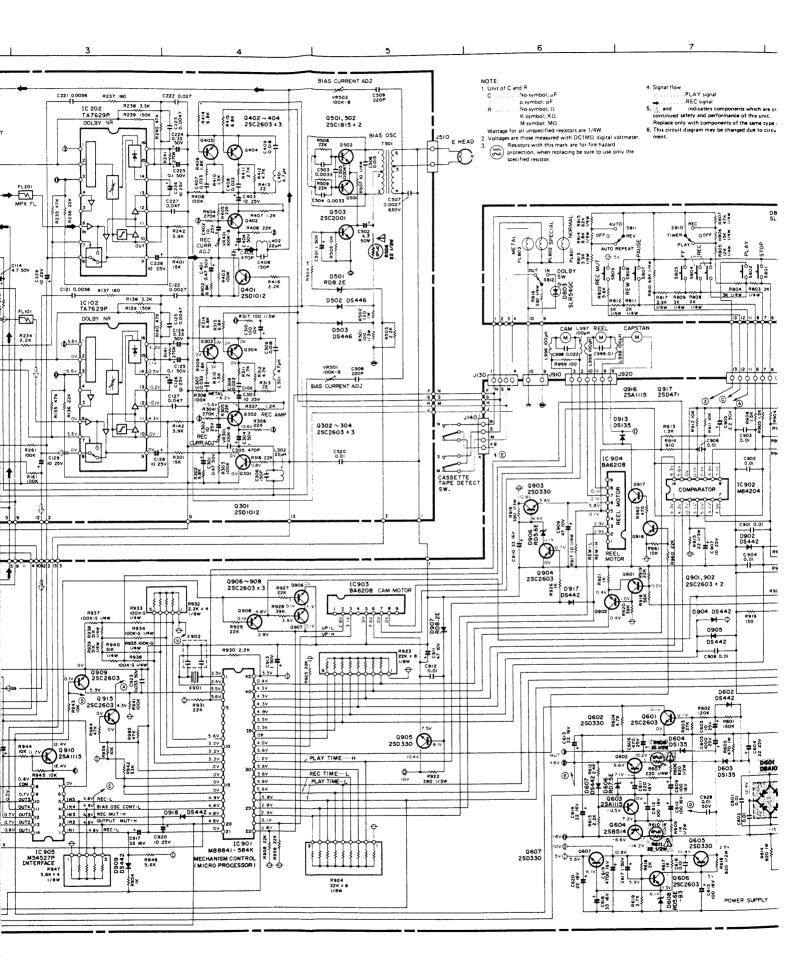


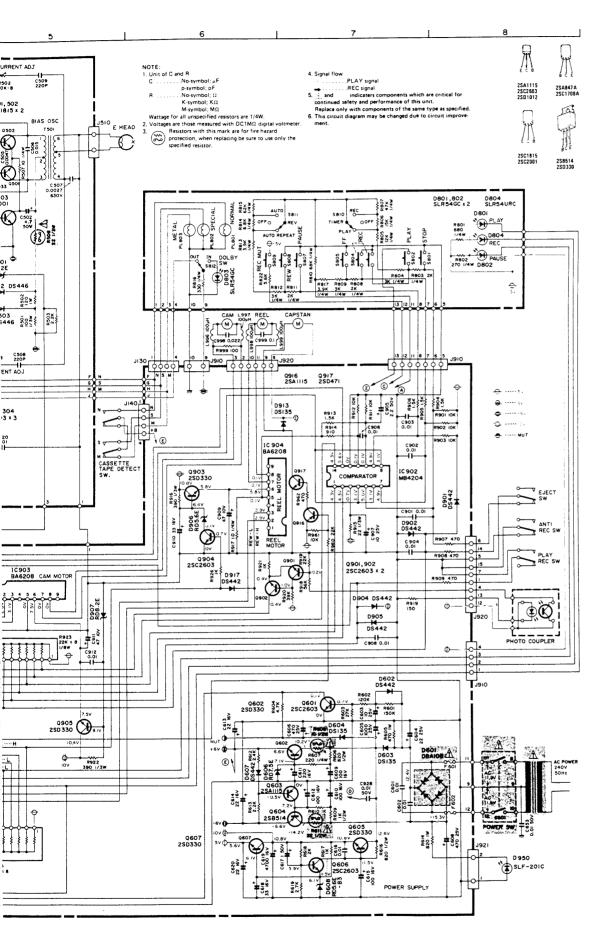




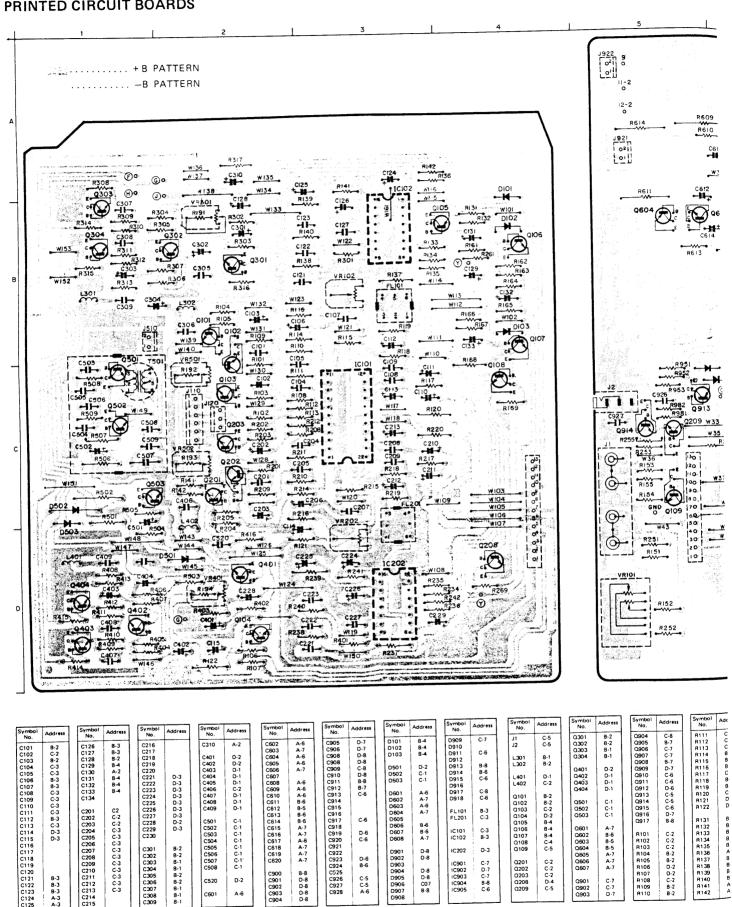
#### SCHEMATIC DIAGRAM







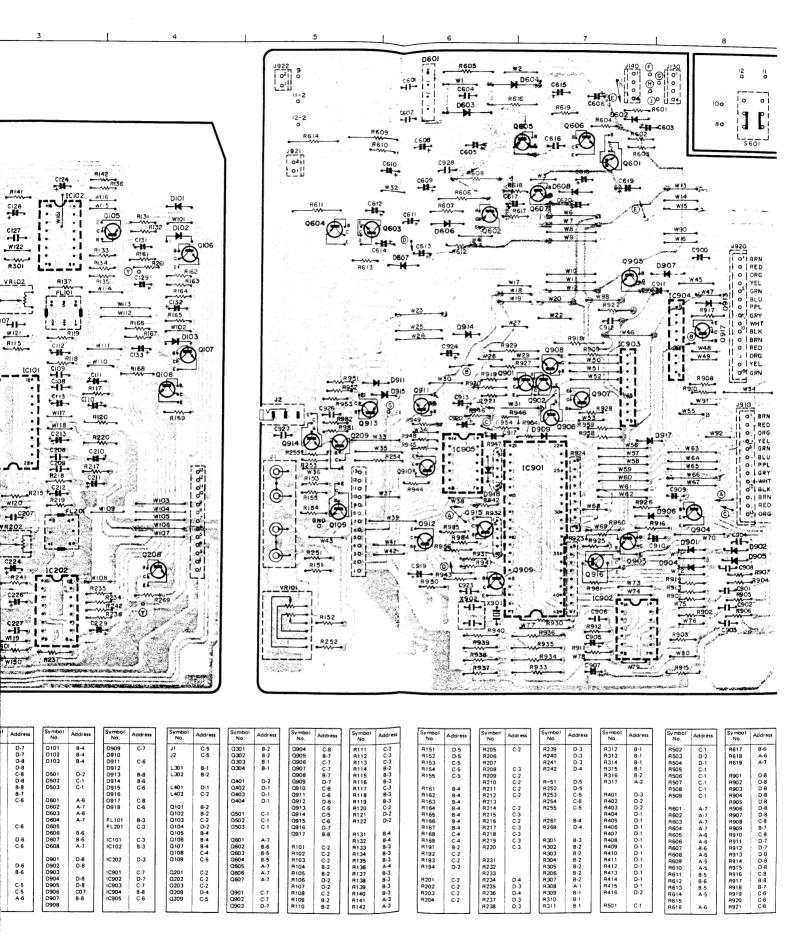
#### PRINTED CIRCUIT BOARDS

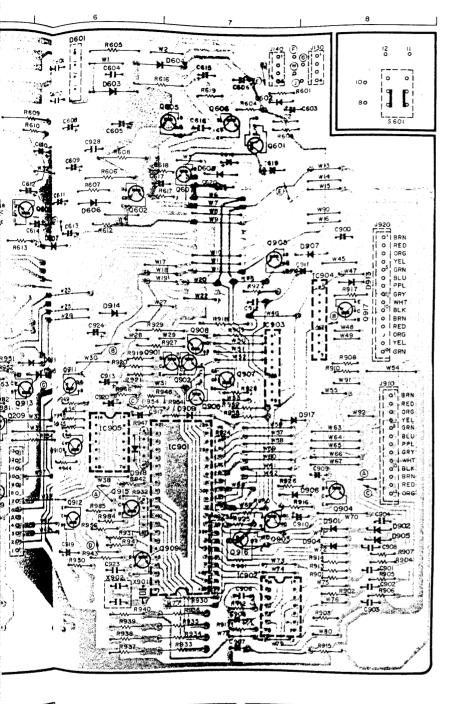


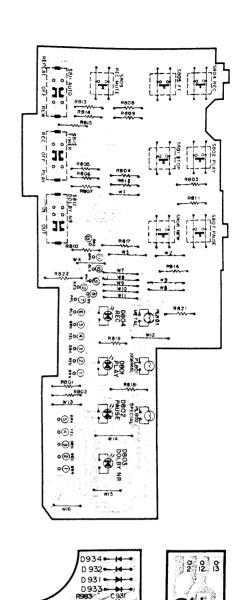
C900 C901 C902 C903 C904

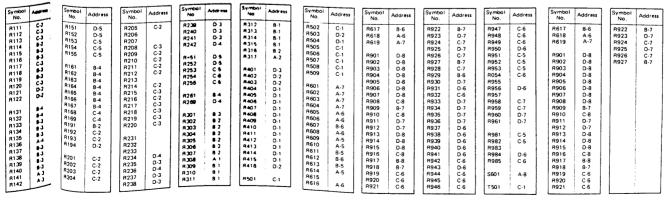
D-2

C601

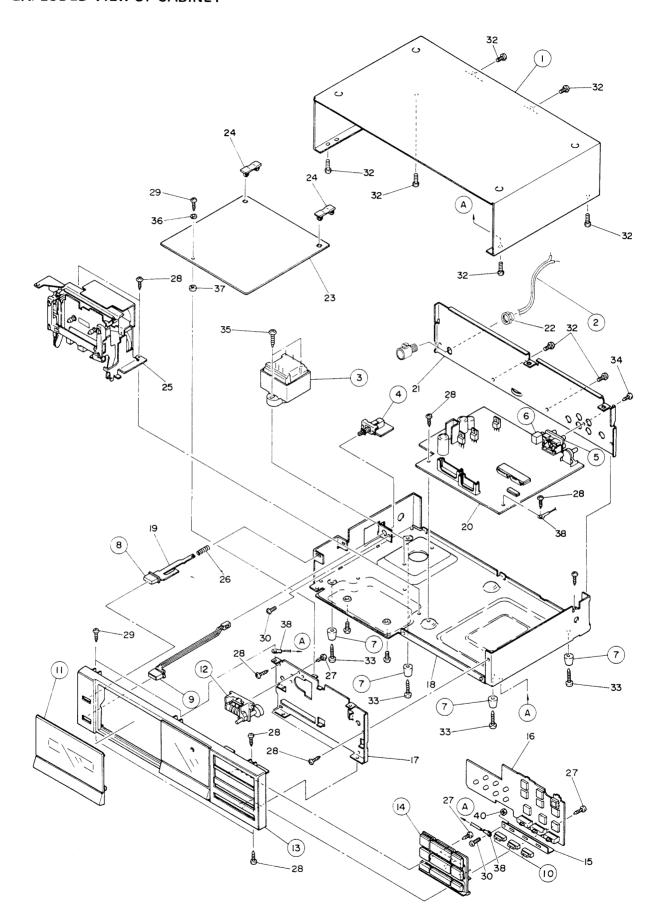




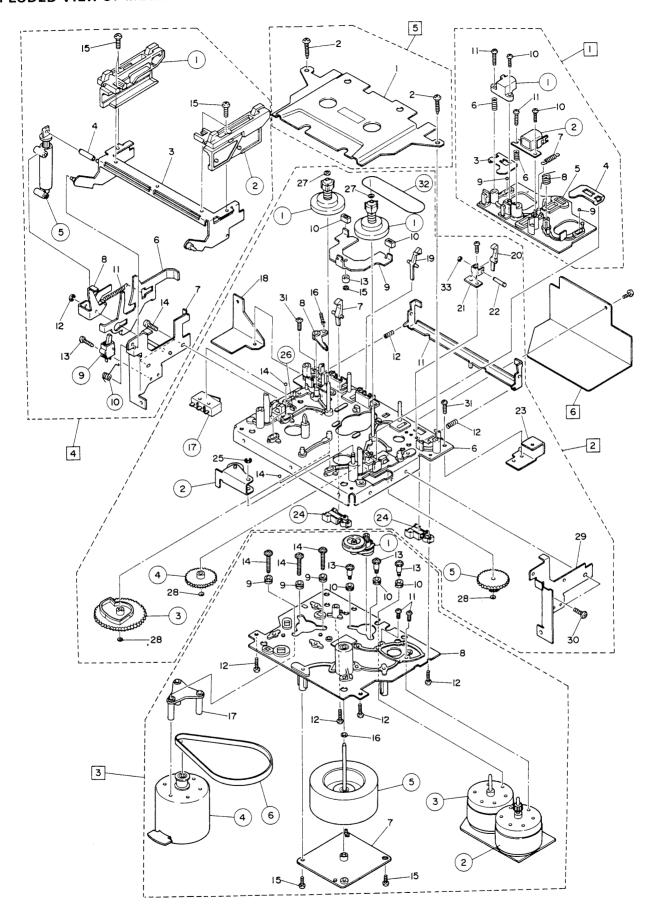




# **EXPLODED VIEW OF CABINET**



# **EXPLODED VIEW OF MECHANISM**



#### **PARTS LIST**

Symbol Part No. Description No. Cabinet M05237162 1 Case (Top ∞ver) 2 M07556490 Power cord 3 M05247500 Trans-Power 4 M04174357 SW-Power 5 M04172480 Terminal (Line, Out/In) 6 M05237475 Jack (Auto Function) 7 M05237190 Leg 8 M05237201 Knob (Eject) 9 M05211205 Knob (Power) 10 M05237200 Knob (Auto, Timer, Dolby) M05245132 11 Cover Ass'y (Cassette) M05206404 12 Counter 13 M05245100 Panel Ass'y (Front) 14 M05245200 Knob (Mechanism Control) 15 Holder 16 Mechanism Control P.C.B. 17 Panel-Front 18 Chassis Base 19 Link 20 Main P.C.B. 21 Back Panel 22 M07535060 Clamper 23 24 Hinge 25 Mechanism Ass'y 26 Spring 27 Screw 1-2.6 x 6 28 Screw 2-3 x 6 29 Screw 2-3 x 8 30 Screw M3 x 6 31 32 Screw M3 x 8 (V) 33 Screw 2-3 x 16 Screw 1-3 x 8 34 35 Screw 2-4 x 16 36 Washer 37 Rubber Cushion 38 Lug-terminal 39 40 Nut M3 41 Clamper **Mechanical Parts** 1 Head Base Ass'y 2 Chassis Ass'y 3 Motor Base Ass'v 4 Eject Mechanism Ass'y 5 Holder 6 Shield 1 Head Base Ass'y M04172524 Erase Head 1 2 M04172520 Rec/PB Head Plate Spring (Stopper L) 3 Plate Spring (Stopper R) 4

NOTE: And marks components on Parts list have special characteristics to keep safety performance of this unit. When replacing any of these parts, be sure to use only specified parts.

only specified parts.					
Symbol No.	Part No.	Description			
5		Head Base			
6.		Spring (Head)			
7		Spring (Head)			
8		Spring (Pinch Roller)			
9	M07314627	Steel Ball			
10		Screw 1-2 x 8			
11		Screw M2 x 4			
2		Chassis Base Ass'y			
1	M05232702	Reel Rest Ass'y			
2	M05232720	Pinch Roller			
3	M05232732	Main Gear			
4	M05232730	Gear (Centre)			
5	M05232731	Gear (Centre)			
6		Chassis Base Ass'y			
7		Lever (AR)			
8		Lever (Back Tension)			
9		Link (Blerk)			
10		Rubber Cushion			
11		Holder (Cassette Stopper)			
12 13		Spring			
14	M05021627	Pulley Steel Ball			
15	WI05021627	PL Washer			
16		Spring (Back Tension)			
17	M07602381	Micro SW (AR)			
18	14107002301	Holder L			
19		Lever (Tape Auto Select)			
20		Lever (Tape Auto Select)			
21		Holder			
22		Pin			
23		Holder U			
24	M05202435	Micro SW (Tape Auto Select)			
25		E-ring			
26	M05208390	Spring SW			
27		PL Washer			
28		PL Washer			
29		Holder			
30		Screw 2-3 x 6			
31		Screw 2-3 x 8			
32	M05237713	Counter Belt			
33		E-ring 2			
3		Motor Base Ass'y			
1	M05232632	Pulley Ass'y (FF/REW)			
2	M05232552	Cam Motor			
3	M05232551	Reel Motor			
4	M05232550	Capstan Motor			
5	M05232756	Flywheel			
6	M05232713	Main Belt			
7		Holder (for Fly Wheel)			
8		Motor Base			
9		Rubber Cushion (Capstan Motor)			
10		Rubber Cushion (Reel Motor)			
11		Screw M2.6 x 5			
12		Screw-B 2.6 x 14			
13		Screw M2.6 x 5			
14		Screw M2.6 x 25			
15		Screw 1-2.6 x 8			
16		PL Washer			
		1			

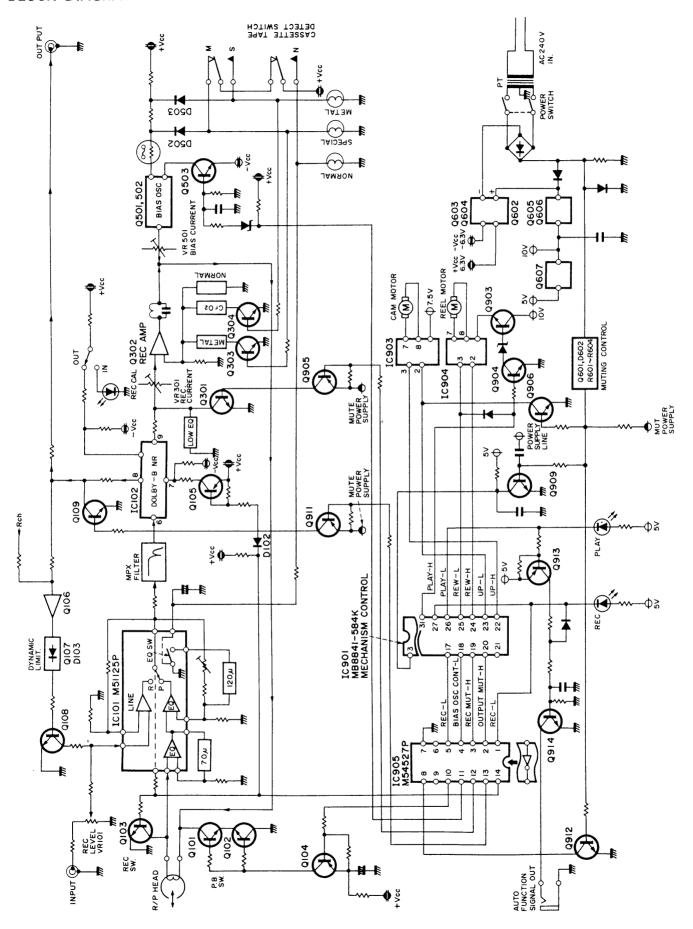
Symbol No.	Part No.	Description
17		Holder (for Motor)
No.	M05207148 M05207147 M04165625 M05237380 M05237760	

Symbol No.	Part No.	Description
		Diodes
D101	M07556320	DS442
D102	M07556320	DS442
D103	M07556320	DS442
D501	M05232327	RD8.2E-B2
D502	M07556320	DS442
D503	M0E333330	DS446 DBA10B
D601 D602	M05223320 M07556320	DS442
D602	M07568320	DS135
D604	M07568320	DS135
D606	M05232326	RD7.5E-B1
D607	M07556320	DS442
D608	M05232331	RD5.6E-B3
D801	M07460321	SLR54GC
D802	M07460321	SLR54GC
D803	M07460321	SLR54GC
D804	M07520326	SLR54URC
D901	M07556320	DS442
D902	M07556320	DS442
D903	M07556320	DS442
D904 D905	M07556320	DS442
D905	M05232329	RD5.6E-B1
D907	M05232327	RD8.2E-B2
D909	M07556320	DS442
D911	M07556320	DS442
D913	M07568320	DS135
D915	M07556320	DS442
D917	M07556320	DS442
D918	M07556320	DS442
D931	M07556320	DS442
D932	M07556320	DS442 DS442
D933	M07556320 M07556320	DS442
D934 D950	M05237320	SLF-201C
D930	14103237320	021 23 13
		10.
		1Cs
IC101	M05237310	M51125P
IC102	M05225314	TA7629P
IC202	M05225314	TA7629P
TC901	M05232312	MB8841-584K
IC902	M05232313	MB4204 BA6208
IC903	M07568310 M07568310	BA6208
IC904	M07508310 M05232314	M54527P
IC905	1005232314	141343271
		Transistors
Q101	M07113310	2SC1708A
Q102	M07113310	2SC1708A
Q103	M07390303	2SC2603
Q104	M07140303	2SA847A
Q105	M07390304	2SA1115

Symbol No.	Part No.	Description
Q106	M07390303	2SC2603
Q107	M07390303	2SC2603
Q108	M07390303	2SC2603
Q109	M07390303	2SC2603
Q201	M07113310	2SC1708A:
Q202	M07113310	2SC1708A
0203	M07390303	2SC2603
Q208	M07390303	2SC2603
Q209	M07390303	2SC2603
Q301	M07454303	2SD1012
0302	M07390303	2SC2603
Q303 Q304	M07390303 M07390303	2SC2603
Q401	M07454303	2SC2603 2SD1012
0402	M07390303	2SC2603
0403	M07390303	2SC2603
Q404	M07390303	2SC2603
Q501	M05237300	2SC1815
Q502	M05237300	2SC1815
Q503	M07314303	2SC2001
Q601	M07390303	2SC2603
0602	M07061304	2SD330
Q603	M07390304	2SA1115
Q604	M05200310	2SB514
Q605	M07061304	2SD330
Q606	M07390303	2SC2603
Q607	M07061304	2SD330
Q901	M07390303	2SC2603
Q902	M07390303	2SC2603
Ø903	M07061304	2SD330
Q904	M07390303	2SC2603
Q905	M07061304	2SD330
Q906	M07390303	2SC2603
Q907	M07390303 M07390303	2SC2603 2SC2603
Q908	M07390303	2SC2603
Q909 Q910	M07390304	2SA1115
Q911	M07390304	2SA1115
Q912	M07390303	2SC2603
Q913	M07390304	2SA1115
Q914	M07390303	2SC2603
Q915	M07390303	2SC2603
Q916	M07390304	2SC1115
Q917	M05147311	2SD471
Q931	M07390303	2SC2603
Q932	M07390303	2SC2603
	M07508303	NJL5141EA
	<u></u>	Electrical Parts
L301	M05237510	Coil 4.7mH
L302	M05209420	Coil 22mH
L401	M05237510	Coil 4.7mH
L402	M05209420	Coil 22mH
T501	M05237511	Coil OSC
RBOS CIGNES RB110	M67139411 M67133420 M07139411	R-Fuse 1/2M 22-K Δ.  R-Fuse 1/2M 22-K Δ.

Symbol	Davi M-	Description
No.	Part No.	Description
S601	M04174357	SW-Push (POWER)
S801	M07520454	SW-Push (STOP)
S802	M07520454	SW-Push (PLAY)
S804	M05237355	SW-Push (REC)
S805	M07520454	SW-Push (FF)
S807	M07520454	SW-Push (PAUSE)
S808	M07520454	SW-Push (REW)
S809	M07520454	SW-Push (REC MUT)
S810	M05202434	SW-Slide (TIMER)
S811	M05202434	SW-Slide (AUTO-REW/REPEAT)
S812 PL801	M05237360 M05237565	SW-Slide (DOLBY)
PL802	M05237565	Lamp Lamp
PL803	M05237565	Lamp
VR101	M05237400	VR-W-A20K25
VR102	M05245410	VR-Semi-B22K
VR202	M05245410	VR-Semi-B22K
VR301	M05245411	VR-Semi-B100K
VR401	M05245411	VR-Semi-B100K
VR501	M05245411	VR-Semi-B100K
VR601	M05245411	VR-Semi-B100K
C619	M05245430	C-Elect-16V 4700μF
C605	M07546430	C-Elect-25V 1000µF
X901	M05237422	Ceramic-OSC
X902	M05237423	Ceramic-OSC
FL101	M05245445	Filter
FL201	M05245445 M05110471	Filter Fuse-800mA-Semco
F602	M05110471	Fuse-800mA-Semco A
* <b>****</b> ****	M07508303	Photo-REF NJL5141EA
Packing		
201	M05237910	Cushion-Mold (2pcs/set)
202	M05245900	Packing Box
203	M05237930	Cover (for Packing)
	M05247940	Instruction Booklet
	M05237495	Lead (Pin-Pin)
	M05237496	Lead (Pin-Pin-Auto) Card (Warranty)
	M05247945	Card (warranty)
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## **BLOCK DIAGRAM**



# PACKING INSTRUCTIONS

